

Estimating Sums and Differences of Fractions and Mixed Numbers

You can use rounding to estimate sums and differences of fractions and mixed numbers.

How to round fractions:

If the fractional part is greater than or equal to $\frac{1}{2}$, round up to the next whole number.

Example: Round $3\frac{5}{7}$ to the nearest whole number.

$\frac{5}{7}$ is greater than $\frac{1}{2}$, so $3\frac{5}{7}$ rounds up to 4.

If the fractional part is less than $\frac{1}{2}$, drop the fraction and use the whole number you already have.

Example: Round $6\frac{1}{3}$ to the nearest whole number.

$\frac{1}{3}$ is less than $\frac{1}{2}$, so drop $\frac{1}{3}$ and round down to 6.

How to estimate sums and differences of fractions and mixed numbers:

Round both numbers to the nearest whole number. Then add or subtract.

Example: Estimate $4\frac{1}{8} + 7\frac{2}{3}$.

$4\frac{1}{8}$ rounds down to 4.

$7\frac{2}{3}$ rounds up to 8.

$$4 + 8 = 12$$

So, $4\frac{1}{8} + 7\frac{2}{3}$ is about 12.

Round to the nearest whole number.

1. $8\frac{6}{7}$ _____

2. $14\frac{2}{9}$ _____

3. $42\frac{4}{7}$ _____

4. $6\frac{51}{100}$ _____

5. $29\frac{4}{5}$ _____

6. $88\frac{2}{4}$ _____

7. $19\frac{3}{44}$ _____

8. $63\frac{41}{49}$ _____

Estimate each sum or difference.

9. $7\frac{2}{5} + 8\frac{1}{9}$ _____

10. $13\frac{5}{8} - 2\frac{7}{10}$ _____

11. $2\frac{1}{4} + 5\frac{1}{2} + 10\frac{3}{4}$ _____

12. $11\frac{3}{5} - 4\frac{1}{12}$ _____

13. $8 + 4\frac{11}{14} + 5\frac{1}{9}$ _____

14. $15\frac{6}{7} - 12\frac{2}{10}$ _____